

CLAIMS

What is claimed is:

- 1 1. A device retention apparatus, comprising
2 a housing for mounting an information handling system device;
3 a retaining portion for engaging an information handling system device when the
4 information handling system device is disposed in the housing;
5 a selection mechanism for securing the information handling system device to the
6 housing, the selection mechanism sliding between a first position and a second
7 position; and
8 a locking ramp for engaging the selection mechanism for holding the selection
9 mechanism in the second position;
10 wherein as the selection mechanism is moved from the first position to the second
11 position, the selection mechanism engages the retaining portion with the
12 information handling system device within the housing for securing the
13 information handling system device within the housing.
- 1 2. The device retention apparatus as claimed in claim 1, wherein the
2 retaining portion is formed as an integral part of the housing.
- 1 3. The device retention apparatus as claimed in claim 1, wherein the
2 retaining portion includes a retaining tab for engaging a hole disposed in the
3 information handling system device.
- 1 4. The device retention apparatus as claimed in claim 1, further
2 comprising when the selection mechanism is moved from the second position to the
3 first position, the selection mechanism disengages the retaining portion from the
4 information handling system device for permitting removal of the information
5 handling system device from the housing.

1 5. The device retention apparatus as claimed in claim 4, wherein when
2 the selection mechanism is moved to the second position, the retention portion is
3 withdrawn thereby permitting at least one of insertion and removal of the information
4 handling system device without interference from the retention portion.

1 6. The device retention apparatus as claimed in claim 1, wherein the
2 housing includes a first side and a second side disposed on generally opposing
3 sections of the housing, the second side including a biasing mechanism for the
4 information handling system device against the first side of the housing, and the first
5 side including the selection mechanism.

1 7. The device retention apparatus as claimed in claim 1, wherein the
2 selection mechanism includes a handle so as to enable manual operation of the
3 retention mechanism, the handle facilitating at least one of operation from the front of
4 the housing and operation from the side of the housing.

1 8. The device retention apparatus as claimed in claim 1, wherein the
2 selection mechanism provides at least one of an indication of an unsecured state
3 wherein the retaining portion is not engaged with the information handling system
4 device and an indication of a secured state wherein the retaining portion is engaged
5 with the information handling system device.

1 9. A device retention apparatus, comprising
2 a housing for mounting an information handling system device;
3 means for engaging an information handling system device when the information
4 handling system device is disposed in the housing;
5 means for securing the information handling system device to the housing, the
6 securing means sliding between a first position and a second position; and
7 means for holding the securing means in the second position;
8 wherein as the securing means is moved from the first position to the second position,
9 the securing means engages the engaging means with the information
10 handling system device within the housing for securing the information
11 handling system device within the housing.

1 10. The device retention apparatus as claimed in claim 1, wherein the
2 engaging means includes means for engaging a hole disposed in the information
3 handling system device.

1 11. The device retention apparatus as claimed in claim 1, further
2 comprising when the securing means is moved from the second position to the first
3 position, the securing means disengages the engaging means from the information
4 handling system device for permitting removal of the information handling system
5 device from the housing.

1 12. The device retention apparatus as claimed in claim 4, wherein when
2 the securing means is moved to the second position, the retention portion is
3 withdrawn thereby permitting at least one of insertion and removal of the information
4 handling system device without interference from the engaging means.

1 13. The device retention apparatus as claimed in claim 1, wherein the
2 housing includes a first side and a second side disposed on generally opposing

3 sections of the housing, the second side including a biasing mechanism for the
4 information handling system device against the first side of the housing, and the first
5 side including the securing means.

1 14. The device retention apparatus as claimed in claim 1, wherein the
2 securing means includes a handle so as to enable manual operation of the retention
3 mechanism, the handle facilitating at least one of operation from the front of the
4 housing and operation from the side of the housing.

1 15. The device retention apparatus as claimed in claim 1, wherein the
2 securing means provides at least one of an indication of an unsecured state wherein
3 the engaging means is not engaged with the information handling system device and
4 an indication of a secured state wherein the engaging means is engaged with the
5 information handling system device.

1 16. An information handling system, comprising:
2 a chassis for holding components of the information handling system, the chassis
3 having an opening being at least substantially enclosed by a door for
4 providing access to the components; and
5 a device retention apparatus disposed in the chassis for mounting an information
6 handling system device within the chassis, the device retention apparatus
7 including:
8 a housing for receiving the information handling system device;
9 a retaining portion for engaging an information handling system device when
10 the information handling system device is disposed in the housing;
11 a selection mechanism coupled to the housing for securing the information
12 handling system device to the housing, the selection mechanism
13 sliding between a first position and a second position; and
14 a locking ramp coupled to the door for engaging the selection mechanism for
15 holding the selection mechanism in the second position;
16 wherein as the selection mechanism is moved from the first position to the
17 second position, the selection mechanism engages the retaining portion
18 with the information handling system device within the housing for
19 securing the information handling system device within the housing.

1 17. The information handling system as claimed in claim 16, wherein the
2 retaining portion is formed as an integral part of the housing.

1 18. The information handling system as claimed in claim 16, wherein the
2 retaining portion includes a retaining tab for engaging a hole disposed in the
3 information handling system device.

1 19. The information handling system as claimed in claim 16, further
2 comprising when the selection mechanism is moved from the second position to the

3 first position, the selection mechanism disengages the retaining portion from the
4 information handling system device for permitting removal of the information
5 handling system device from the housing.

1 20. The information handling system as claimed in claim 19, wherein
2 when the selection mechanism is moved to the second position, the retention portion
3 is withdrawn thereby permitting at least one of insertion and removal of the
4 information handling system device without interference from the retention portion.

1 21. The information handling system as claimed in claim 16, wherein the
2 housing includes a first side and a second side disposed on generally opposing
3 sections of the housing, the second side including a biasing mechanism for the
4 information handling system device against the first side of the housing, and the first
5 side including the selection mechanism.

1 22. The information handling system as claimed in claim 16, wherein the
2 selection mechanism includes a handle so as to enable manual operation of the
3 retention mechanism, the handle facilitating at least one of operation from the front of
4 the housing and operation from the side of the housing.

1 23. The information handling system as claimed in claim 16, wherein the
2 selection mechanism provides at least one of an indication of an unsecured state
3 wherein the retaining portion is not engaged with the information handling system
4 device and an indication of a secured state wherein the retaining portion is engaged
5 with the information handling system device.